

AMENDMENTS TO THE CLAIMS

1-4. (Canceled)

5. (Currently amended) ~~A~~ An additional welding method for a welding method using a welding material having a low transformation temperature, ~~which comprises performing additional welding while avoiding heat history of the welding material of low transformation temperature by welding temperature which terminates its martensite transformation expansion at room~~ temperature at or near the location where welding is complete, wherein the additional welding method is performed to induce compressive residual stress near a weld zone by an initial welding prior to the additional welding without heat history that is alternation of heating and cooling during the additional welding.

6. (Currently amended) The additional welding method according to claim 5, being a welding method using a welding material having a low transformation temperature, wherein additional welding is performed from the upper side by way of the side face to the lower side of the welding toe part of end portion of a horizontal annex plate wherein when connecting a horizontal annex to a vertical member by welding, the additional welding method is performed by welding, in turn, an upper side of said horizontal annex, a side face of the horizontal annex downward straightly along the side face of the horizontal annex and a lower side of the horizontal annex when a weld line reaches a lower side of the horizontal annex.

7. (Currently amended) The additional welding method according to claim 5 or 6, wherein the additional welding is performed while moving so that the weld line may become is linear.

8. (Currently Amended) The additional welding method according to ~~claims~~ claim 5 or 6, wherein the additional welding method is arc welding using a welding material having a low transformation temperature, which terminates its martensite transformation expansion at room temperature at or near the location where welding is complete.

9. (Currently amended) The additional welding method according to claim 8, wherein only rare gas is used as shielding gas.

10. (Currently amended) The additional welding method according to claim 8, wherein a mixed gas of rare gas and oxygen gas is used as shielding gas.

11. (Currently amended) The additional welding method of claim 10, wherein the content of oxygen gas is 8% or less by volume.